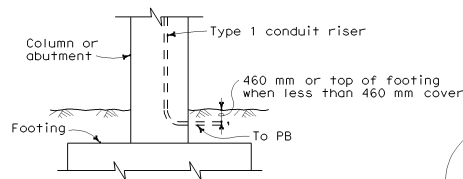
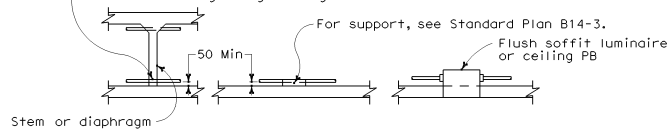


DETAIL R
CONDUIT RISER
CONNECTION

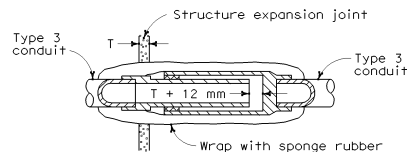


DETAIL T
LOWER END OF CONDUIT RISER
AT COLUMN OR ABUTMENT

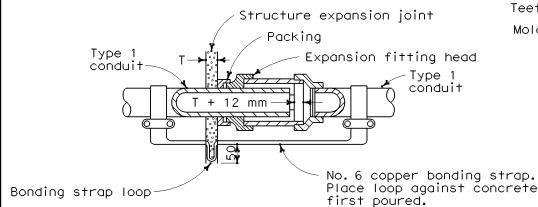
Conduit passing through girder or diaphragm of box girder section shall be either cast into concrete or passed through opening. Opening shall not be drainage opening and shall be only as large as required to install conduit. Conduit shall be run either parallel to or at right angles to girders.



DETAIL S
CONDUIT INSTALLATION WITHIN
BOX GIRDER SECTIONS



NON-METALLIC CONDUIT INSTALLATION
(To be used only when shown or specified on Project Plans)

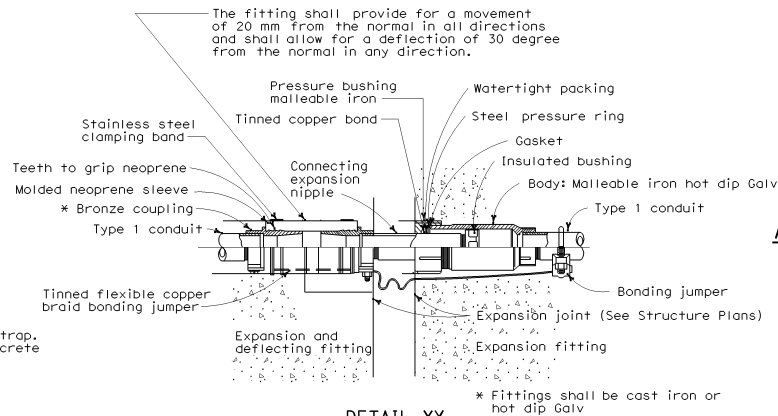


METALLIC CONDUIT INSTALLATION

DETAIL X
CONDUIT EXPANSION FITTINGS

NOTES

1. Except for sidewalk joints, a conduit expansion fitting or expansion-deflection fitting shall be installed at each 12 mm or greater structure joint, hinge or abutment.
2. Fittings or combination of fittings shall be installed to accommodate the movement rating as shown on the structure plans.
3. Fittings shall be installed parallel to superstructure girders.
4. Where lateral movement greater than 6 mm may occur, a neoprene sleeve expansion-deflection fitting shall be installed straddling the joint.
5. The external bond strap may be omitted when the fitting is provided with an internal bond equivalent to a No. 6 copper bond in Type 1 conduit or the No. 8 equipment grounding conductor in Type 3 conduit.



DETAIL XY
COMBINATION EXPANSION-DEFLECTION FITTINGS

* Fittings shall be cast iron or hot dip Galv



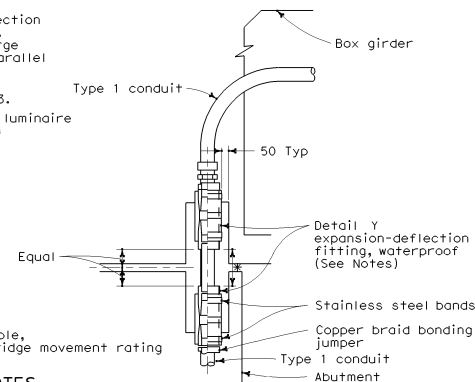
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET TOTAL NO. SHEETS

March V. Shyer
REGISTERED ELECTRICAL ENGINEER
No. E13738
Exp. 6-30-07
STATE OF CALIFORNIA

July 1, 2004
PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

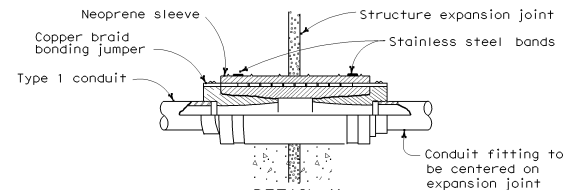
To get to the Caltrans web site, go to: <http://www.dot.ca.gov>



NOTES

1. Fitting and pocket required only where movement can occur between girder and abutment.
2. Fill pocket around fitting with resilient waterproof compound.

DETAIL U
CONDUIT RISER CONNECTION
AT COLUMN, ABUTMENT OR STRUCTURE WING WALL



DETAIL Y
CONDUIT EXPANSION-DEFLECTION FITTING

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (ELECTRICAL DETAILS STRUCTURE INSTALLATIONS)

NO SCALE

ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

ES-9B